

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

074305801

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

074305710 074305744

# KERR

## Material Safety Data Sheet

in accordance with Community Regulation 2006/1907/EC (R.E.A.Ch.)

Revision Date: 28<sup>th</sup> May 2009

### SECTION 1

#### Product & Company identification

1.1 Product name

**PERMLASTIC CATALYST (Regular & Heavy Bodies)**

1.2 Uses/Application:

Dental impression material.

1.3 Company (Name, address and info phone number)

**KERR ITALIA s.r.l.**

Via Passanti, 332

84018 Scafati (SA) - Italy

00-800-41-050-505

1.4 Emergency phone (according to communitarian directive 99/45/EC, article 17)

+39.081.8508.325 (08.00-17.00, European time, GMT+1)

E-mail address: [safety@kerrhawe.com](mailto:safety@kerrhawe.com)

### SECTION 2

#### Hazard identification

2.1 Hazard classification (according to communitarian directives 67/548/EEC & 99/45/EC)

None.

2.2 Other hazard

None.

### SECTION 3

#### Composition/Information on Ingredients

(according to communitarian directives 67/548/EEC, 99/45/EC & 2001/58/EC)

3.1 Hazardous ingredients

HAZARDOUS INGREDIENTS	%	HAZARD SYMBOLS	RISK PHRASES	CAS N.	EINECS N.
None	N/A	N/A	N/A	N/A	N/A

3.2 Other non-hazardous ingredients

Lead Dioxide.

**SECTION 4****First aid measures**

- 4.1 Treatment for eye contact: Flush with large amounts of water.
- 4.2 Treatment for skin contact: Wash thoroughly with water and soap.
- 4.3 Treatment for inhalation (breathing): None particular. It is an unlikely event.
- 4.4 Treatment for ingestion (swallowing): Induce vomiting. Consult a physician.

**SECTION 5****Fire-fighting Measures**

- 5.1 Suitable extinguishing media: Not applicable.
- 5.2 Forbidden extinguishing media: Not determined.
- 5.3 Special fire fighting measures: None.
- 5.4 Unusual fire and explosion hazards: Unknown.
- 5.5 Special protection equipment: Sealed overall.

**SECTION 6****Accidental Release Measures**

- 6.1 Personal Precautions: Follow recommended precautions listed in other sections.
- 6.2 Environmental Precautions: Material should not be allowed to drain into sewers.
- 6.3 Reclaiming Methods: Absorb spill with paper towels and transfer into suitable containers.

**SECTION 7****Handling and Storage** (according to article 5 of communitarian directive 98/24/EC)

- 7.1 Handling Precautions: .
- 7.2 Precautions in case of Fire and Explosion: None particular.
- 7.3 Storage Conditions: Store at ambient temperature in a dry place
- 7.4 Suggested container(s): Original sealed containers provided by manufacturer.
- 7.5 Indication for Combined Storage: Avoid powerful reducing agents.
- 7.6 Environmental precautions: Do not allow product to reach sewers and rivers.
- 7.7 Other Precautions: Keep out of the reach of children. Do not ingest. Avoid contamination of food. Use according to directions.

<b>SECTION 8</b>	
<b>Exposure controls/personal protection</b>	
8.1 Exposure Limits:	PbO <sub>2</sub> : TLV: 0,15 mg/m <sup>3</sup>
8.2 Exposure control measures	
8.2.1 Precautionary Measures: (according to communitarian directives 89/686/EEC & article 4 of 98/24/EC)	
Ventilation:	Local Exhaust Ventilation: None required. Special Ventilation: None. Mechanical (General) Ventilation: None required. Other Ventilation: None.
Respiratory Protection:	None required.
Hands Protection:	Impervious rubber or nitrile gloves.
Eyes Protection:	May be used safety glasses.
Skin Protection:	Handle in accordance with good personal hygiene and safety practices.
Other Protective Equipments:	It would be better use a lab coat.
<i>Measures listed in this paragraph are to be considered as indications and NOT prescriptions (89/656/EEC)</i>	
8.2.2 Environment exposure control measures Not Applicable.	

<b>SECTION 9</b>	
<b>Physical and Chemical Properties</b>	
9.1 General information	
Appearance: Brown to purple grey paste	Odour: Slight fruity odour
9.2 Information related to health, safety and environment	
pH: Not determined	Relative density: Not available
Boiling point: Not applicable (N/A)	Specific gravity: > 2,0 g/ml
Flash point: N/A	Solubility: Insoluble in water
Flammability: Not flammable.	Partition coefficient n-octanol/water: N/D
Lower Explosivity Limit (L.E.L.): N/A	Viscosity: N/D
Upper Explosivity Limit (U.E.L.): N/A	Vapour density (air = 1): N/A
Oxidizing properties: None	Evaporation rate (n-butane = 1): N/A
Vapour pressure: N/A	Melting point: N/A
9.3 Other information (according to communitarian directives 94/9/EC):	
Miscibility: N/A.	Conducibility: N/A
Solubility in Lipids: N/A	Gases Group: N/A

**SECTION 10**

**Stability and Reactivity**

Stability: Stable.

10.1 Conditions to avoid: Excessive heat may cause aging of the product.

10.2 Materials to avoid (incompatibility): Avoid powerful reducing agents.

10.3 Hazardous decomposition products: Hazardous sulphur oxides gas may form.

Other precautions:

Hazardous Polymerization Products: Will not occur

Safety significance in case of change in physical appearance: None known

Stabilizers: No stabilizers are present in this product.

**SECTION 11**

**Toxicological Information**

CMR effects (Carcinogenicity, Mutagenicity and toxicity for reproduction):

None. However, the product contains Lead Dioxide classified by EPA / IRIS in Group B2 and IARC Group 2A: Probable human carcinogen, sufficient animal evidence.

Effects and hazards of eye contact: May cause mild irritation by mechanical friction.

Effects and hazards of skin contact: Prolonged contact may cause local irritation, redness and pain.

Effects and hazards of Inhalation (Breathing): Neglectable, because it is an unlikely event.

Effects and hazards of Ingestion (Swallowing): Although ingestion is an unlikely event, uncured material may be poisonous if swallowed, because containing lead dioxide. The symptoms of lead poisoning include abdominal pain and spasms, nausea, vomiting, headache. Acute poisoning can lead to muscle weakness, "lead line" on the gums, metallic taste, definite loss of appetite, insomnia, dizziness, high lead levels in blood and urine with shock, coma and death in extreme cases.

Effects for prolonged Exposure: Lead Dioxide contained in the product may have effects on the blood, bone marrow, central nervous system, peripheral nervous system and kidneys, resulting in anaemia, encephalopathy (e.g., convulsions), peripheral nerve disease, abdominal cramps and kidney impairment. Causes toxicity to human reproduction or development.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

Toxicological data for ingredients:

<b>Lead Dioxide</b>	LD <sub>50</sub> (oral rat):	20400 mg/Kg
	LD <sub>50</sub> (skin rabbit):	> 10000 mg/Kg
	LC <sub>50</sub> (inhalation rat/4 hours):	> 6,7 mg/l

**SECTION 12****Ecological Information**

This product has not known ecological hazardous effects.

12.1 Eco-toxicity: Not available

12.2 Mobility: Not available

12.3 Persistence and degradability: Not available

12.4 Bioaccumulative potential: Not available.

12.5 Results of PBT (Persistent Bio-Toxicity) assessment: Not available

12.6 Other adverse effects: Not available

Aquatic toxicity data for single ingredient:

None.

**SECTION 13****Disposal considerations**

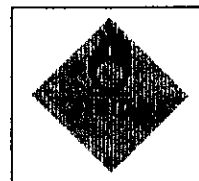
Dispose of in accordance of local regulations.

**SECTION 14****Transport information**14.1 Sea transportation (IMDG)

UN number: 1872    Class: 5.1    Packing group: III    EMS-No: F-A, S-Q

Stowage/segregation: Category A;    Limited Quantity: 5 Kg

Proper shipping name: Lead Dioxide

14.2 Air transportation (ICAO/IATA)

UN number: 1872    Class: 5.1    Packing group: III    Labels: 5.1

Maximum quantities: 25 Kg (Passenger Aircraft);    100 Kg (Cargo Aircraft only)

Limited Quantity: 10Kg    Proper shipping name: Lead Dioxide

14.3 Transportation by Road/Railway (RID/ADR)

UN number: 1872    Class: 5.1    Packing group: III    Labels: 5.1 + 6.1

Limited Quantity: LQ12 (1 Kg/30 Kg for combined, 1 Kg/20 Kg for bandaged trays).

External package type: carton (4G) both for simple and combined packages;

Exempted (maximum) quantity for transport unit: 1000 Kg;    Proper shipping name: Lead Dioxide

**SECTION 15** (Classification according to communitarian directives 67/548/EEC & 99/45/EC)**Regulatory information**

Hazard labelling not required.

This product is an exempted medical device (directive 1999/45/EC, article 1, paragraph 5g).

**SECTION 16****Other information**16.1 Risk phrases of all ingredients

None.

16.1.1 Safety phrases of all ingredients

None.

16.2 Sources of key data used to compile the Safety Data Sheet:European Chemicals Bureau (ECB – [www.ecb.jrc.it](http://www.ecb.jrc.it))European chemical Substances Information System (ESIS - [www.ecb.jrc.it/esis](http://www.ecb.jrc.it/esis))A.C.G.I.H. ([www.acgih.org](http://www.acgih.org))N.I.O.S.H. ([www.cdc.gov/niosh/](http://www.cdc.gov/niosh/))O.S.H.A. ([www.osha.gov/](http://www.osha.gov/))U.E. ([www.europa.eu/index\\_it.htm](http://www.europa.eu/index_it.htm))I.A.R.C. ([www.iarc.fr/](http://www.iarc.fr/))N.T.P. ([www.ntp.niehs.nih.gov](http://www.ntp.niehs.nih.gov))International Labour Organization ([www.ilo.org](http://www.ilo.org))European Community Directives:

67/548/EEC:	Classification, packaging and labelling of dangerous substances.
99/45/EC:	Directive concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
2001/58/EC:	Second amendment of directive 91/155/EEC for the definition of a detailed arrangement of specific information relating to dangerous preparations (art. 14 of 99/45/EC) and substances (art. 27 of 67/548/EEC).
89/656/EEC:	Directive on the minimum health and safety requirements for the use by workers of personal protective equipment at the workplace (third individual directive within the meaning of Article 16 (1) of Directive 89/391/EEC).
89/686/EEC:	Approximation of the laws of the Member States relating to personal protective equipment.
94/9/EC:	Approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres
98/24/EC:	Protection of the health and safety of workers from the risks related to chemical agents at work.

Document modification history: First version in compliance of Community Regulation 2006/1907/EC (R.E.A.Ch.)

**CAUTION: PRODUCT FOR PROFESSIONAL USE**

The information on this Safety Sheet is based on presently available data and to our best knowledge for the correct handling of the product under normal conditions. Any use of this product in any way not indicated on this Sheet or the use of this product together with any other process/procedure will be exclusively under the user's responsibility. This document does not constitute explicit or implicit warranty of product quality or fitness for a particular purpose.

## SAFETY DATA SHEET

### Section 1. Product And Company Identification

**Product Name:** Permlastic Catalyst (Regular; Heavy-Bodied)

**Product Use:** Dental product: Denture impression material.

**Manufacturer:** Kerr Corporation  
1717 W. Collins Ave.  
Orange, CA 92867-5422  
U.S.A.

**Information Phone Number:** 1-800-841-1428 (Customer Service)

**Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):**  
CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

**SDS Date of Preparation/Revision:** April 17, 2019

### Section 2. Hazards Identification

**GHS Classification:**

Acute Oral Toxicity Category 4  
Carcinogenicity Category 1B  
Toxic to Reproduction Category 1A  
Specific Target Organ Toxicity Repeated Exposure Category 2  
Aquatic Acute Toxicity Category 1  
Aquatic Chronic Toxicity Category 1

**Label Elements:**

Danger!



**Hazard Phrases**

Harmful if swallowed.  
May cause cancer.  
May damage fertility or the unborn child.  
Suspected of damaging fertility.  
May cause damage to organs through prolonged or repeated exposure.  
Very toxic to aquatic life with long lasting effects.

**Precautionary Phrases:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust.  
Wash hands thoroughly after handling.



Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Wear protective gloves, eye or face protection.

IF exposed or concerned: Get medical attention.

Get medical attention if you feel unwell.

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Store locked up.

Dispose of contents and container in accordance with local and national regulations.

### Section 3. Composition/Information on Ingredients

Component	CAS No.	Amount
Lead dioxide	1309-60-0	10-30%

### Section 4. First Aid Measures

**Inhalation:** Immediately remove victim to fresh air. Get medical attention if you feel unwell.

**Skin Contact:** Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

**Eye Contact:** Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Keep the victim calm and warm. Get immediate medical attention.

**Most important symptoms and effects, acute and delayed:** Harmful if swallowed. May cause damage to organs. May damage fertility or the unborn child.

**Indication of immediate medical attention and special treatment, if needed:** Immediate medical attention is required if large quantities have been ingested or inhaled.

### Section 5. Fire Fighting Measures

**Suitable (and Unsuitable) Extinguishing Media:** Use any media appropriate for the surrounding fire. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** Combustion may produce carbon dioxide, carbon monoxide, and metal oxides.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Cool fire-exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

**Section 6: Accidental Release Measures**

**Personal precautions, Protective equipment, and Emergency procedures:** Evacuate spill area and keep unprotected personnel away. Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment. Do not breathe dust.

**Environmental Precautions:** Avoid releases to the environment. Report spill as required by local and federal regulations.

**Methods and Materials for Containment and Cleaning up:** Prompt cleanup and removal are necessary. Absorb spills with an inert material and place it in an appropriate waste disposal container.

**Section 7. Handling and Storage**

**Precautions for Safe Handling:** Prevent contact with eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke in the work area. Do not breathe vapors. Use with adequate ventilation. Remove and wash contaminated clothing before reuse.

Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, dry, well-ventilated area away from direct sunlight. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

**Section 8. Exposure Controls / Personal Protection**

**Exposure Limits**

Chemical	Exposure Limit
Lead dioxide	0.05 mg/m <sup>3</sup> TWA ACGIH TLV (as lead)

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Respiratory Protection:** None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, an approved respirator with particulate cartridges is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Hand protection:** Impervious gloves are suggested to prevent skin contact. Contact your glove supplier for selection assistance.

**Eye Protection:** Chemical safety goggles are recommended if contact is possible.

**Skin Protection:** Wear protective clothing as needed to avoid skin contact and contamination of personal clothing.

**Hygiene measures:** Suitable eye and skin washing facilities should be available in the work area.

## Section 9. Physical and Chemical Properties

<b>Appearance:</b>	Brown paste	<b>Odor:</b>	Slightly fruity
<b>Odor Threshold:</b>	Not available	<b>pH:</b>	Not available
<b>Melting/Freezing Point:</b>	Not available	<b>Boiling Point/Range:</b>	Not available
<b>Flash Point:</b>	Not flammable	<b>Evaporation Rate:</b>	Not available
<b>Flammability: (Solid, Gas)</b>	Not applicable	<b>Flammability Limits:</b>	LEL: Not applicable UEL: Not applicable
<b>Vapor Pressure:</b>	Not available	<b>Vapor Density:</b>	Not available
<b>Relative Density:</b>	>1	<b>Solubilities:</b>	Insoluble in water
<b>Partition Coefficient: (N-Octanol/Water)</b>	Not available	<b>Autoignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available	<b>Viscosity:</b>	Not available

## Section 10. Stability and Reactivity

**Reactivity:** The product is not expected to be reactive.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Avoid excessive heat.

**Incompatible Materials:** Reducing materials.

**Hazardous decomposition products:** None if stored normally.

## Section 11. Toxicological Information

**Potential Health Effects:**

**Inhalation:** None known.

**Skin Contact:** None known.

**Eye Contact:** None known.

**Ingestion:** Harmful if swallowed.

**Chronic Hazards:** May cause damage to organs through prolonged or repeated exposure. May cause cancer. Risk of cancer depends on duration and level of exposure. May damage the unborn child. Product is suspected of damaging fertility.

**Skin corrosion/irritation:** This product is not expected to cause skin irritation or corrosion.

**Eye damage/ irritation:** This product is not expected to cause eye irritation or corrosion.

**Skin Sensitization:** No adverse effects expected. Components are not sensitizers.

**Respiratory Sensitization:** No data available. This product is not expected to cause respiratory sensitization.

**Germ Cell Mutagenicity:** None of the components are mutagenic.

**Carcinogen:** Lead dioxide is reasonably anticipated to be a human carcinogen by NTP. None of the other components are listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

**Developmental / Reproductive Toxicity:** None of the components have been shown to cause reproductive or developmental toxicity.

**Specific Target Organ Toxicity (Single Exposure):** No data available.

**Specific Target Organ Toxicity (Repeated Exposure):** Repeated exposure to lead dioxide may damage blood system, kidneys and nervous system.

**Aspiration Toxicity:** Not an aspiration hazard.

**Acute Toxicity Values:**

Product ATE: 1864.2 mg/kg (Oral)

<b>Section 12. Ecological Information</b>
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**Toxicity:** No data available.

This product is classified as very toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

**Persistence and degradability:** Biodegradation is not applicable to inorganic substances.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other Adverse Effects:** No data available.

<b>Section 13. Disposal Considerations</b>
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**Disposal:** For unused product, dispose of in accordance with Federal and local regulations.

**Container Disposal:** Dispose of empty container in accordance with Federal and local regulations.

<b>Section 14. Transport Information</b>
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	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
<b>US DOT</b>	UN3077	Environmentally Hazardous Substance, solid, n.o.s. (Lead dioxide). Marine pollutant (Lead dioxide)	9	III	Yes
<b>EU ADR/RID</b>	UN3077	Environmentally Hazardous Substance, solid, n.o.s.	9	III	Yes
<b>IMDG</b>	UN3077	Environmentally Hazardous Substance, solid, n.o.s. (Lead dioxide). Marine pollutant (Lead dioxide)	9	III	Yes

IATA/ICAO	UN3077	Environmentally Hazardous Substance, solid, n.o.s. (Lead dioxide)	9	III	Yes
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**Special Precautions for User:** None identified

**Transport in Bulk According to Annex II MARPOL 73/78 and the IBC Code:** Not applicable – product is transported only in packaged form.

**Section 15. Regulatory Information**

**U.S. Federal Regulations:**

**EPA SARA 311/312 Hazard Classification:** Refer to Section 2 for OSHA Hazard Classification.

**EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):**

Lead dioxide	1309-60-0	10-30%
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**Protection Of Stratospheric Ozone:** This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

**CERCLA SECTION 103:** This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**International Inventories**

**US EPA TSCA Inventory:** All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

**Canada CEPA:** All of the components of this material are listed on the DSL or exempt.

**Section 16. Other Information**

**Effective Date:** April 17, 2019

**Supersedes Date:** May 15, 2015

**Revision Summary:** All Sections – New SDS format

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, KERR Corporation makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.